For wavelength reference SRMs see: Table 207.4 Optoelectronics (solid forms

SRM 936a has been discontinued. SRM 2943 Relative Intensity Correction Standard for Fluorescence Spectroscopy; Blue Emission can be used as an alternative for applications using a cuvette-type sample format. See Table 204.2 (below) for related materials.

Specular Spectral Reflectance - These SRMs are intended for calibrating the reflectance scale of integrating sphere reflectometers used to evaluate materials for solar energy collectors and to calibrate reflectometers used in evaluating the appearance of polished metals and metal-plated objects. SRMs 2011, 2013, 2015, 2017 and 2021 are now being supported by Calibration Service (Service No. 38060S). Click here for further information: http://dx

For further information see SP 260-79 and SP 260-75

Infrared Reflectance (solid form)
Optical Rotation (powder form) - SRM 17f is intended for calibrating or checking polarimetric apparatus. In aqueous solution, the optical rotation of SRM 17f is value assigned at four wavelengths.

Photography (chart form) - SRM 1010a is used to test the resolving power of cameras or of whole microcopying systems. It consists of 5 charts printed photographically on paper, that have 26 high-contrast, 5-line patterns ranging in spatial frequency of 1 mm⁻¹ to 18 mm⁻¹.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	17f	1010a	1928	1929	1932	1934	2036	2241	2242a	2244	2245	2246	2940a	2941a
Description			Infrared Specular					Relative Intensity	Relative Intensity	Relative Intensity	Relative Intensity			
			High					Correction	Correction	Correction	Correction		Relative Intensity	Relative Intensity
			Reflectance Standard	Infrared Specular High		Fluorescent Dyes for		Standard for Raman	Standard for Raman	Standard for Raman	Standard for Raman	Relative Intensity Correction Standard	Correction Standard for	Correction Standard for
		Microcopy Resolution	(Nominal Diameter 51	Reflectance Standard (Nominal Diameter 25	Florence	Quantitative Flow Cytometry (Visible	Near Infrared Wavelength/Wavenumber	Spectroscopy: 785 nm	Spectroscopy: 532 nm	Spectroscopy: 1064 nm	Spectroscopy: 633 nm	for Raman Spectroscopy: 830	Fluorescence Spectroscopy:	Fluorescence
		Test Charts		mm)	Solution	Spectral Range)	Reflection Standard	Excitation	Excitation	Excitation	Excitation	nm Excitation	Orange Emission	Spectroscopy: Green Emission
Unit Size	(60 g)	(set (5))	(disk)	(disk)	(3 x 2 mL)	(4 ampoules x 1 each level)	(each)	(each)	(each)	(each)	(each)	(each)	(solid glass cuvette)	(solid glass cuvette)

Reference values are italicized
 Values in parentheses are for information only

For wavelength reference SRMs see: <u>Table 207.4 Optoelectronics (solid forms)</u>

SRM 936a has been discontinued. SRM 2943 Relative Intensity Correction Standard for Fluorescence Spectroscopy; Blue Emission can be used as an alternative for applications using a cuvette-type sample format. See Table 204.2 (below) for related materials.

Specular Spectral Reflectance - These SRMs are intended for calibrating the reflectance scale of integrating sphere reflectometers used to evaluate materials for solar energy collectors and to calibrate reflectometers used in evaluating the appearance of polished metals and metal-plated objects SRMs 2011, 2013, 2015, 2017 and 2021 are now being supported by Calibration Service (Service No. 38060S). Click here for further information: http://dx

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Infrared Reflectance (solid form)
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Relative Intensity
Correction Standard for
Fluorescence
Spectroscopy: Ultraviolet
Emission

Relative Intensity
Correction Standard for
Fluorescence
Spectroscopy: Blue
Emission
Emission

Relative Intensity
Correction Standard for
Fluorescence
Spectroscopy: Rel
Emission (each(12.5 x 12.5 x 45)mm) (each(12.5 x 12.5 x 45)mm) (each(12.5 x 12.5 x 45)mm)

⁻ Reference values are italicized

⁻ Values in parentheses are for information only

For wavelength reference SRMs see: <u>Table 207.4 Optoelectronics (solid forms</u>

SRM 936a has been discontinued. SRM 2943 Relative Intensity Correction Standard for Fluorescence Spectroscopy; Blue Emission can be used as an alternative for applications using a cuvette-type sample format. See Table 204.2 (below) for related materials.

Specular Spectral Reflectance - These SRMs are intended for calibrating the reflectance scale of integrating sphere reflectometers used to evaluate materials for solar energy collectors and to calibrate reflectometers used in evaluating the appearance of polished metals and metal-plated objects. SRMs 2011, 2013, 2015, 2017 and 2021 are now being supported by Calibration Service (Service No. 38060S). Click here for further information: http://dx

For further information see SP 260-79 and SP 260-75

Infrared Reflectance (solid form)
Optical Rotation (powder form) - SRM 17f is intended for calibrating or checking polarimetric apparatus. In aqueous solution, the optical rotation of SRM 17f is value assigned at four wavelengths.

Photography (chart form) - SRM 1010a is used to test the resolving power of cameras or of whole microcopying systems. It consists of 5 charts printed photographically on paper, that have 26 high-contrast, 5-line patterns ranging in spatial frequency of 1 mm⁻¹ to 18 mm⁻¹.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	1932	1934	2241	2242a	2244	2245	2246	2940a	2941a	2942	2943	2944
Description Unit Size	Fluorescein Solution	Fluorescent Dyes for Quantitative Flow Cytometry (Visible Spectral Range) (4 ampoules x 1 each level)	Relative Intensity Correction Standard for Raman Spectroscopy: 785 nm Excitation (each)	Relative Intensity Correction Standard for Raman Spectroscopy: 532 nm Excitation (each)	Relative Intensity Correction Standard for Raman Spectroscopy: 1064 nm Excitation (each)	Relative Intensity Correction Standard for Raman Spectroscopy: 633 nm Excitation (each)	Relative Intensity Correction Standard for Raman Spectroscopy: 830 nm Excitation (each)	Relative Intensity Correction Standard for Fluorescence Spectroscopy: Orange Emission (solid glass cuvette)	Relative Intensity Correction Standard for Fluorescence Spectroscopy: Green Emission (solid glass cuvette)	Relative Intensity Correction Standard for Fluorescence Spectroscopy: Ultraviolet Emission (each(12.5 x 12.5 x 45)mm)	Relative Intensity Correction Standard for Fluorescence Spectroscopy: Blue Emission (each(12.5 x 12.5 x 45)mm)	Relative Intensity Correction Standard for Fluorescence Spectroscopy: Red Emission (each(12.5 x 12.5 x 45)mm)
Wavelength Range (nm)	488 to 491	405, 488 to 491, 532, 652	785	532	1064	632.8	830	500 to 800	450 to 650	320 to 430	350 to 640	530 to 830

⁻ Reference values are italicized

⁻ Values in parentheses are for information only

For wavelength reference SRMs see: <u>Table 207.4 Optoelectronics (solid forms</u>

SRM 936a has been discontinued. SRM 2943 Relative Intensity Correction Standard for Fluorescence Spectroscopy; Blue Emission can be used as an alternative for applications using a cuvette-type sample format. See Table 204.2 (below) for related materials.

Specular Spectral Reflectance - These SRMs are intended for calibrating the reflectance scale of integrating sphere reflectometers used to evaluate materials for solar energy collectors and to calibrate reflectometers used in evaluating the appearance of polished metals and metal-plated objects SRMs 2011, 2013, 2015, 2017 and 2021 are now being supported by Calibration Service (Service No. 38060S). Click here for further information: http://dx

For further information see SP 260-79 and SP 260-75

Infrared Reflectance (solid form)
Optical Rotation (powder form) - SRM 17f is intended for calibrating or checking polarimetric apparatus. In aqueous solution, the optical rotation of SRM 17f is value assigned at four wavelengths.

Photography (chart form) - SRM 1010a is used to test the resolving power of cameras or of whole microcopying systems. It consists of 5 charts printed photographically on paper, that have 26 high-contrast, 5-line patterns ranging in spatial frequency of 1 mm⁻¹ to 18 mm⁻¹.

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204.2(3)- Infrared Reflectance (solid form)

SRM Description Unit Size Near Infrared Wavelength/Wavenumber Reflection Standard (each) Wavelength Range (nm) 975 to 1946

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only

For wavelength reference SRMs see: Table 207.4 Optoelectronics (solid forms)

SRM 936a has been discontinued. SRM 2943 Relative Intensity Correction Standard for Fluorescence Spectroscopy; Blue Emission can be used as an alternative for applications using a cuvette-type sample format. See Table 204.2 (below) for related materials.

Specular Spectral Reflectance - These SRMs are intended for calibrating the reflectance scale of integrating sphere reflectometers used to evaluate materials for solar energy collectors and to calibrate reflectometers used in evaluating the appearance of polished metals and metal-plated objects SRMs 2011, 2013, 2015, 2017 and 2021 are now being supported by Calibration Service (Service No. 38060S). Click here for further information: http://dx

For further information see SP 260-79 and SP 260-75

Infrared Reflectance (solid form)
Optical Rotation (powder form) - SRM 17f is intended for calibrating or checking polarimetric apparatus. In aqueous solution, the optical rotation of SRM 17f is value assigned at four wavelengths. Photography (chart form) - SRM 1010a is used to test the resolving power of cameras or of whole microcopying systems. It consists of 5 charts printed photographically on paper, that have 26 high-contrast, 5-line patterns ranging in spatial frequency of 1 mm⁻¹ to 18 mm⁻¹.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

204.2(4)- Optical Rotation (powder form)

SRM Description Unit Size 17f Sucrose Optical Rotation (60 g)

	Optical Rotation (in mrad) 3/4 Aqueous Solution Wavelength (100 mm cell)							
546.2271 nm		355.68						
589.4400 nm		302.03						
632.9914 nm		259.51						
882.60 nm		129.41						

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only

For wavelength reference SRMs see: <u>Table 207.4 Optoelectronics (solid forms</u>

SRM 936a has been discontinued. SRM 2943 Relative Intensity Correction Standard for Fluorescence Spectroscopy; Blue Emission can be used as an alternative for applications using a cuvette-type sample format. See Table 204.2 (below) for related materials.

Specular Spectral Reflectance - These SRMs are intended for calibrating the reflectance scale of integrating sphere reflectometers used to evaluate materials for solar energy collectors and to calibrate reflectometers used in evaluating the appearance of polished metals and metal-plated objects SRMs 2011, 2013, 2015, 2017 and 2021 are now being supported by Calibration Service (Service No. 38060S). Click here for further information: http://dx

For further information see SP 260-79 and SP 260-75

Infrared Reflectance (solid form)
Optical Rotation (powder form) - SRM 17f is intended for calibrating or checking polarimetric apparatus. In aqueous solution, the optical rotation of SRM 17f is value assigned at four wavelengths.

Photography (chart form) - SRM 1010a is used to test the resolving power of cameras or of whole microcopying systems. It consists of 5 charts printed photographically on paper, that have 26 high-contrast, 5-line patterns ranging in spatial frequency of 1 mm⁻¹ to 18 mm⁻¹.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

204.2(5)- Photography (chart form)

SRM Description Unit Size 1010a Microcopy Resolution Test Charts (set (5))

- Certified values are normal font

- Reference values are italicized

- Values in parentheses are for information only